CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

QC ABSTRACT

Nameof Work: De-setting and Re-setting of Drain and Re-Asphalting of roads to Chikkasandra area in Ward No.12 Shettyhalli Sub Division, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	WMM	1412.28 Cum	-	-	-	-
		Gradation	8	8	-	-
		AIV	2	2	-	-
		Shape Test	3	3	-	-
		Atterberg Limits	8	8	-	-
2	BM	353.07 Cum	-	-	-	-
		Quality of Binder	1	1	-	-
		AIV	1	1	-	-
		Shape Test	1	1	-	-
		Gradation	1	1	-	-
		Specific Gravity	1	1	-	-
		Bitumen content	8	8	-	-
3	SDBC	176.54 Cum	-	-	-	-
		Quality of Binder	1	1	-	-
		AIV	1	1	-	-
		Shape Test	1	1	-	-
		Gradation	1	1	-	-
		Specific Gravity	1	1	-	-
		Stability of Mix	4	4	-	-
		Bitumen content	4	4	-	-

AE-12

Received

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Authorised Signatory

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Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/CK/W.No.12/2022-23 Date : 25.05.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Chikkaboregowda Karigowda (CKG Constructions Private Limited),** Contractor, Mysore.

Name of Work : De-setting and Re-setting of Drain and Re-Asphalting of roads to Chikkasandra area in Ward No.12 Shettyhalli Sub Division, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 25.05.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	189	189	1.9	98.1	95-100
22.4	2530	2719	27.2	72.8	60-80
11.2	2168	4887	48.9	51.1	40-60
4.75	1855	6742	67.4	32.6	25-40
2.36	1165	7907	79.1	20.9	15-30
0.600	582	8489	84.9	15.1	8-22
0.075	1210	9699	97.0	3.0	0-5

Note:

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Date of Testing : 25.05.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

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53	0	0	0	100	100
45	176	176	1.8	98.2	95-100
22.4	2536	2712	27.1	72.9	60-80
11.2	2185	4897	49.0	51.0	40-60
4.75	1845	6742	67.4	32.6	25-40
2.36	1120	7862	78.6	21.4	15-30
0.600	536	8398	84.0	16.0	8-22
0.075	1265	9663	96.6	3.4	0-5

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Date of Testing : 25.05.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	178	178	1.8	98.2	95-100
22.4	2562	2740	27.4	72.6	60-80
11.2	2145	4885	48.9	51.2	40-60
4.75	1869	6754	67.5	32.5	25-40
2.36	1152	7906	79.1	20.9	15-30
0.600	598	8504	85.0	15.0	8-22
0.075	1236	9740	97.4	2.6	0-5

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Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	188	188	1.9	98.1	95-100
22.4	2545	2733	27.3	72.7	60-80
11.2	2136	4869	48.7	51.3	40-60
4.75	1896	6765	67.7	32.4	25-40
2.36	1165	7930	79.3	20.7	15-30
0.600	525	8455	84.6	15.5	8-22
0.075	1246	9701	97.0	3.0	0-5

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Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	175	175	1.8	98.3	95-100
22.4	2562	2737	27.4	72.6	60-80
11.2	2145	4882	48.8	51.2	40-60
4.75	1898	6780	67.8	32.2	25-40
2.36	1152	7932	79.3	20.7	15-30
0.600	596	8528	85.3	14.7	8-22
0.075	1236	9764	97.6	2.4	0-5

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Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	189	189	1.9	98.1	95-100
22.4	2562	2751	27.5	72.5	60-80
11.2	2145	4896	49.0	51.0	40-60
4.75	1898	6794	67.9	32.1	25-40
2.36	1165	7959	79.6	20.4	15-30
0.600	525	8484	84.8	15.2	8-22
0.075	1245	9729	97.3	2.7	0-5

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53	0	0	0	100	100
45	188	188	1.9	98.1	95-100
22.4	2536	2724	27.2	72.8	60-80
11.2	2165	4889	48.9	51.1	40-60
4.75	1845	6734	67.3	32.7	25-40
2.36	1185	7919	79.2	20.8	15-30
0.600	546	8465	84.7	15.4	8-22
0.075	1265	9730	97.3	2.7	0-5

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Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	175	175	1.8	98.3	95-100
22.4	2562	2737	27.4	72.6	60-80
11.2	2158	4895	49.0	51.1	40-60
4.75	1846	6741	67.4	32.6	25-40
2.36	1198	7939	79.4	20.6	15-30
0.600	536	8475	84.8	15.3	8-22
0.075	1265	9740	97.4	2.6	0-5

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Executed

For CIVIL AIM CONSULTANTS & ENGINEERS

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Aggregate Impact Value

Client	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	**Sri. Chikkaboregowda Karigowda (CKG Constructions Private Limited),** Contractor, Mysore.
Name of the Work	De-setting and Re-setting of Drain and Re-Asphalting of roads to Chikkasandra area in Ward No.12 Shettyhalli Sub Division, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	25.05.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	85.5	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	297	297.5	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.05	22.32	**22.19**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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